

Abstract

High-efficiency phosphor

Phosphor from the class of the oxynitridosilicates, having a cation M which is doped with divalent europium, and having the empirical formula $M_{(1-c)}Si_2O_2N_2:D_c$, where $M = Sr$ or $M = Sr_{(1-x-y)}Ba_yCa_x$ with $x+y < 0.5$, the oxynitridosilicate completely or predominantly comprising the high-temperature-stable modification HT.

Fig. 1